NJDOT MAINTENANCE YARD - FLEMINGTON ROUTE 31 FLEMINGTON BOROUGH/HUNTERDON COUNTY NEW JERSEY EPA # NJD980529473

The NJDOT Maintenance Yard is a 3.8 acre facility located on Route 31 in Flemington Borough, Hunterdon County. The site is adjacent the Central Railroad of New Jersey and the Flemington Borough Memorial Park. The property is presently owned by the state of New Jersey and is partially located in Flemington Borough (Block 39, Lot 11) and Raritan Township (Block 29, Lot 2).

The Standard Oil Company (Esso) previously owned and operated a "Bulk" or holding station for gasoline and kerosene from 1928 to 1958. At that time, Esso owned a 4.27 acre parcel which contained four (4) 10,000 gallon above ground storage tanks. In 1958, the NJDOT began negotiating the purchase of the land and specified that all tanks and equipment be removed from the site by Esso. In the process of removing the tanks, Esso cleaned out each tank and a lead sludge precipitate was collected. It was subsequently buried on site in a 90 x 180 foot area approximately 420' west of Route 31, 28 feet south east of the South Branch of R.R. Tracks. In 1959 NJDOT purchased the land and removed the lead sludge to the point where the soil was visually clean. The remainder of the soil was not determined to be clean by analytical methods.

In 1980 sampling and analysis of an on-site well, a public well (150 feet away) and a private well (500 feet away) by Q.C. Inc. revealed lead below detectable limits in all samples. Also a 4-18-80 site inspection by the NJDEP revealed no visible evidence of lead contamination.

The recommendations for this site are that no futher action be taken at this time. This site can be designated "clean" by a post - remedial soil sampling to determine through—analytical methods that no contamination exists. Although a post - cleanup soil sampling episode was never conducted, the probability of residual lead contamination is low. The lead sludge contained tetraethyl lead which is virtually insoluable in water, thus the migration of lead contaminants between the time of dumping and clean-up is highly remote. Additionally, various volatile organic compounds (Ex. benzene, toluene) may also have been in the sludge, however, they would have volatilized in the 29 years since the time of disposal.

Hours worked: 30 hours

Submitted by:

Frank Faranca, HSMS IV MSCA Project



Preliminary Assessment

NJDOT Maintenance Yard - Flemington Route 31 Flemington Borough/Hunterdon County New Jersey

EPA #NJD098529473

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

L IDENTIFICATION				
OI STATE	02 SITÉ NUMBÉR			
	D980529473			

PART	1 - SITE INFORM	I ASSES	iomen i ID assessm	ENT		9805294	73
II. SITE NAME AND LOCATION	· · · · · · · · · · · · · · · · · · ·						
O1 SITE NAME Hopes, common, or decomplists name of admi		02 STREE	T. ROUTE NO., OF	SPECIFIC LOCATION I	DENTIFIER		
NJDOT Maintenance Yard - Flem	ington		te 31				
03 CITY		04 STATE	05 ZIP CODE	06 COUNTY		07 COUNTY	00.00.0
Flemington Borough	•	NJ	08822	Hunterdon		COOE	DIST
DE COORDINATES LATITUDE LO	NGITUDE	P11	- 20 T			10	
_40 <u>30 25 74 53</u>	<u>27.5</u> .	DIOC	K 39, Lot	ll Fleming	gton Bo	ro 3.8	Acre
10 DIRECTIONS TO SITE (Statung Ham needed) pulses (audi				2 Raritan			
From Trenton, take Route 31 () the left before the railroad	Pennington . tracks.	Avenue)) North t	o Flemingto	n. Si	te is or	n
III. RESPONSIBLE PARTIES				····			
		D2 STREET	(Business, mains, 10	Pageries,			
New Jersey Dept. of Transport	ation	1035	Parkway	Avenue	•		
		04 STATE	05 ZIP CODE	06 TELEPHONE N	MBER		
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07 OFFICATION (# brown and advance from awarer)		DE STREET	-	adonial			
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13 TYPE OF OWNERSHIP (Creck entr)		<u> </u>					
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TE DIFFER DEERATOR NOTIFICATION ON FILE (Check at the day)				· . · · · · · · · · · · · · · · · · · ·		 	
A ACRA 3001 DATE RECEIVED	B UNCONTROLL	ED WASTE	SITE ICERCIA 103	DATE RECEIVED.	5 ,1	,81 5.5	NONE
IV. CHARACTERIZATION OF POTENTIAL HAZARD					MONTH DAY	TEAR	TONE
O1 ON SITE INSPECTION BY ICM	HER AN PHON ASSETY!						
	EPA 🔲 8. EPA LOCAL HEALTH OFFI	CONTRAC	TOR () (C. STATE D	O. OTHER C	ONTRACTOR	
CONT	RACTOR NAME(S):	•			CE(7)		
02 SITE STATUS (Cheen pro)	03 YEARS OF OPER		-				
英 A. ACTIVE DB. INACTIVE DC. UNKNOWN	ESSO —	1928	1958		JNKNOWN		
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN				EAR			
An unknown amount of lead slud	ge was alle	gedly	buried by	v Standard (Dil Com	nany (F	(022
	e read sind	ge was	removed	from four	(4) 10	DOU	330)
gallon above ground tanks that	were on-si	te.			(1) 10,	000	1
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND				-			- 1
A potential for ground water	OR POPULATION						
A potential for ground water, or post clean-up sampling was now	or understa	ter and	soll co	ntaminatior	ı exist	s becaus	se
post clean-up sampling was never taminated soil.	er undertak	en to	contirm t	he removal	of all	con-	ľ
	7 f = -			•			
V. PRIORITY ASSESSMENT				<u> </u>			
O 1 PRIORITY FOR INSPECTION (Chocs one, 8 high or modern a chocked, co	PROPERTY PART 2 - WALLE INTOIN	ausn and Part 3	· Description of Parag	Contract and the contract			{
(Inspection required promotity) B. MEDIUM Inspection required	C. LOW	Dasel	D. NONE	action reeded, companie cu	i) :MN dubolaan	lemi	1
VI. INFORMATION AVAILABLE FROM							
	02 OF (Agency/Organus)	∞ ∨			[03	TELEPHONE NU	MBER
Robert Britton	NJDOT/Burea	au of F	lant Eno	ineerino	i	091530-3	Į.
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	DE ORGANI	LATION	07 TELEPHONE NU		DATE	000
Frank Faranca, HSMS IV	NJDEP	DHWM/		609 1633-2		04 29 /8	

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. IDENTIFICATION

O1 STATE 02 SITE NUMBER

NJ D980529473

\'				INFORMATION			
	TATES, QUANTITIES, AN					 	
01 PHYSICAL S	(Measures of measures)				y volatile		
13 B POWDE	A, FINES LI F LIQUID	TONS _		L) B. CORROS	SIVE LIF. INFEC CTIVE LIG FLAM	MABLE D K. REACTH	vĖ
L. C. SLUDGI	E LI G GAS	CUBIC YARDS	Jnknown	LI D PERSIST			
IS D. OTHER	(Specey)	NO. OF DRUMS					
III. WASTE T	YPE		,				
CATEGORY	SUBSTANCE I	HAME	01 GROSS AMOUNT	02 UNIT OF MEASURE			
SLU	SLUDGE		Unknown	Unknown		<u>e which prec</u>	
OL W	OILY WASTE		<u> </u>			gasoline hole	
SOL	SOLVENTS					buried on th	
PSO	PESTICIDES				prior to N	JDOT's purch	ase.
occ	OTHER ORGANIC C	HEMICALS					
юс	INORGANIC CHEMI	CALS					
ACD	ACIDS						
BAS	BASES				1		
MES	HEAVY METALS						
IV. HAZARD	OUS SUBSTANCES	Appendix for Mass frequen	tir case CAS Aumbers!				
01 CATEGORY	02 SUBSTANCE	NAME	03 CAS NUMBER	04 STORAGE DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF
		,	7439-92-1	90' x 180'	Area	Unknown	Unknown
SLU	Lead Sludge		1437 72 1	70 X 100	111 Ca		
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V. FEEDST	OCKS (See Appendix for CAS Aure	iDer 6)					
CATEGORY	01 FEEDS10	CK NAME	02 CAS NUMBER	CATEGORY	O1 FEEDST	OCK NAME	02 CAS NUMBER
FDS				FDS	1	-	-
FDS			 	FDS	,		
FDS			 	FDS	 		
			-	FDS			
FDS			<u></u>			·	L
VI. SOURCE	S OF INFORMATION IC	la buacine ratarancas, a y	., blais look, sandis anaysis	reports)	· · · · · · · · · · · · · · · · · · ·		
Coc ===	ference sheet	for course	s of inform	ation			
see re.	referice sheet	ior source	S OI IMIOIM	acron.			

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

L IDENTIFICATION

01 STATE 02 SITE MARGER

NJ D980529473

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT RT 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND IN

L IDENTIFICATION

O1 STATE 02 SITE NUMBER

NJ D98052947

PART 3 - DESC	CRIPTION OF HAZARDOUS CONDITIONS AND IN	NJ D980529473
II. HAZARDOUS CONDITIONS AND INCIDI		
01 M J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:	
visible evidence of sluc	ra may occur; however, a 1980 si lge or stressed vegetation.	
	At 1	tachments A; F4
01 K DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION INCLUS NAMED IN AN	02 D OBSERVED (DATE:	
migrated far from the si	ed on site is highly toxic if assupound is relatively water insolute.	sociated with tetraethyl pable and would not have
01 % L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE.	
A potential for contamin bio-accumulative.	nation of the food chain may occu	ır because lead is
01 M UNSTABLE CONTAINMENT OF WAST	ES 02 D OBSERVED (DATE	POTENTIAL _ ALLEGED
C3 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	
Waste was later removed	lead sludge from five (5) gasoli	ne holding tanks on-site.
	<u>Att</u>	achments A, E, F
01 X N DAMAGE TO OFFSITE PROPERTY 04 NARFATIVE DESCRIPTION	02 OBSERVED (DATE:	,.
Damage to off-site prope	rty may potentially occur throug	h domestic well contamin-
ation.	·	
01 0 CONTAMINATION OF SEWERS, STOR 04 NARRATIVE DESCRIPTION	M DRAINS, WWTPs 02 - OBSERVED (DATE:	DOTENTIAL ALLEGED
	wer contamination does not exist	•
01 D P ILLEGAL UNAUTHORIZED DUMPING OF NARRATIVE DESCRIPTION	02 OBSERVED (DATE:) D POTENTIAL D ALLEGED
The dumping of sludge wa federal regulations proh	ste by ESSO Corporation occured ibiting such activity.	prior to any state and
	Att	achment A, E, F
CS DESCRIPTION OF ANY OTHER KNOWN, PO		
the sludge. The sludge (ea.) located on site.	compounds (ex. benzene, toluene originated from four (4) bulk ga) may also have been in soline tanks (10,000 gal.
II. TOTAL POPULATION POTENTIALLY AF	FECTED:	
V. COMMENTS		
The 7-10-80 newspaper are of information that ment:	ticle in the Hunterdon County De ions a site clean-up did occur.	mocrat is the only piece
SOURCES OF INFORMATION ICH MOCE TO	erences, e.g., siate fest, sempre energias, reportaj	
See reference sheet for s		

NJDOT MAINTENANCE YARD - FLEMINGTON FLEMINGTON BOROUGH/HUNTERDON COUNTY NEW JERSEY

REFERENCE:

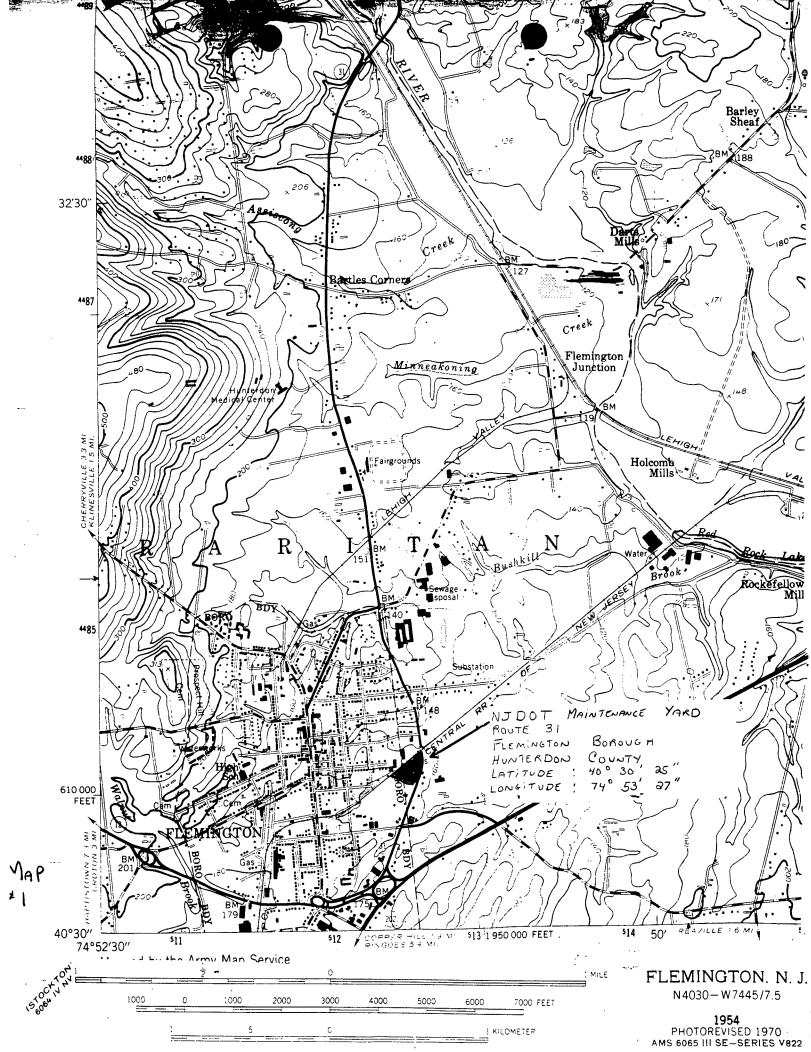
I.	MAP	S
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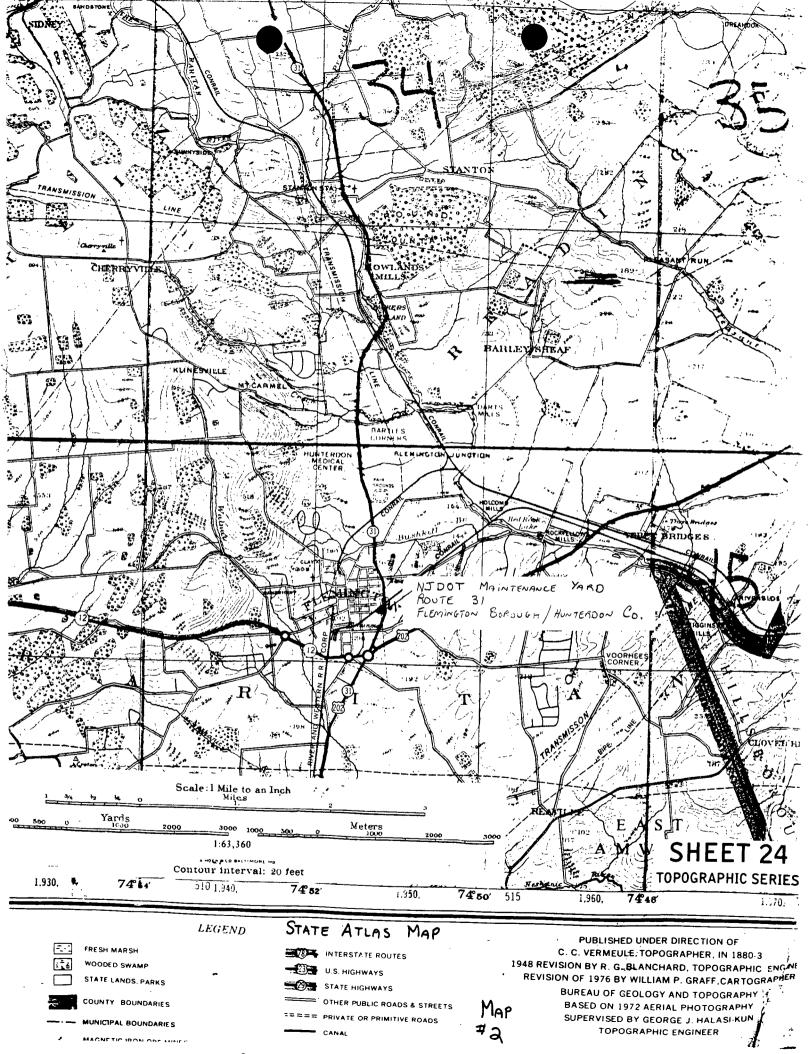
1.	USGS	TOPOGRAPHIC M	íap (FLEMINGTON	OUADRANGLE)

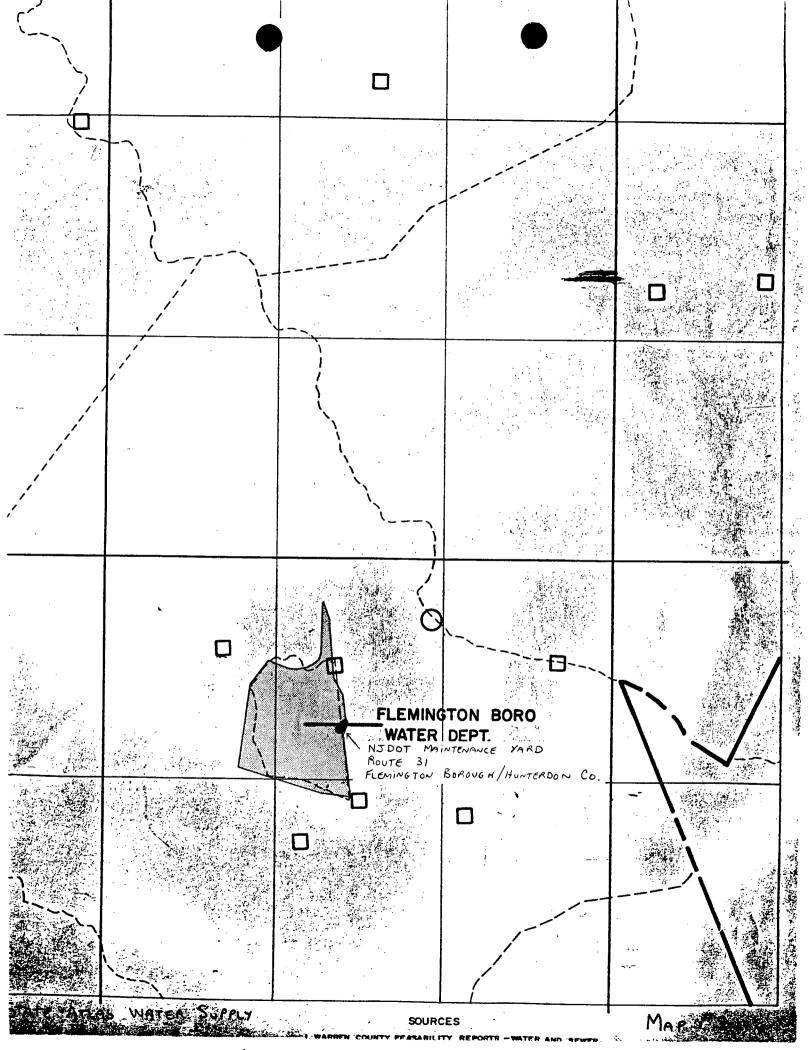
- 2. STATE ATLAS MAP (SHEET 24)
- 3. STATE ATLAS WATER SUPPLY MAP (SHEET 24)
- 4. COUNTY MAP
- 5. STATE MAP
- 6. FLEMINGTON BOROUGH TAX MAP
- 7. FLEMINGTON BOROUGH PUBLIC WELL MAP

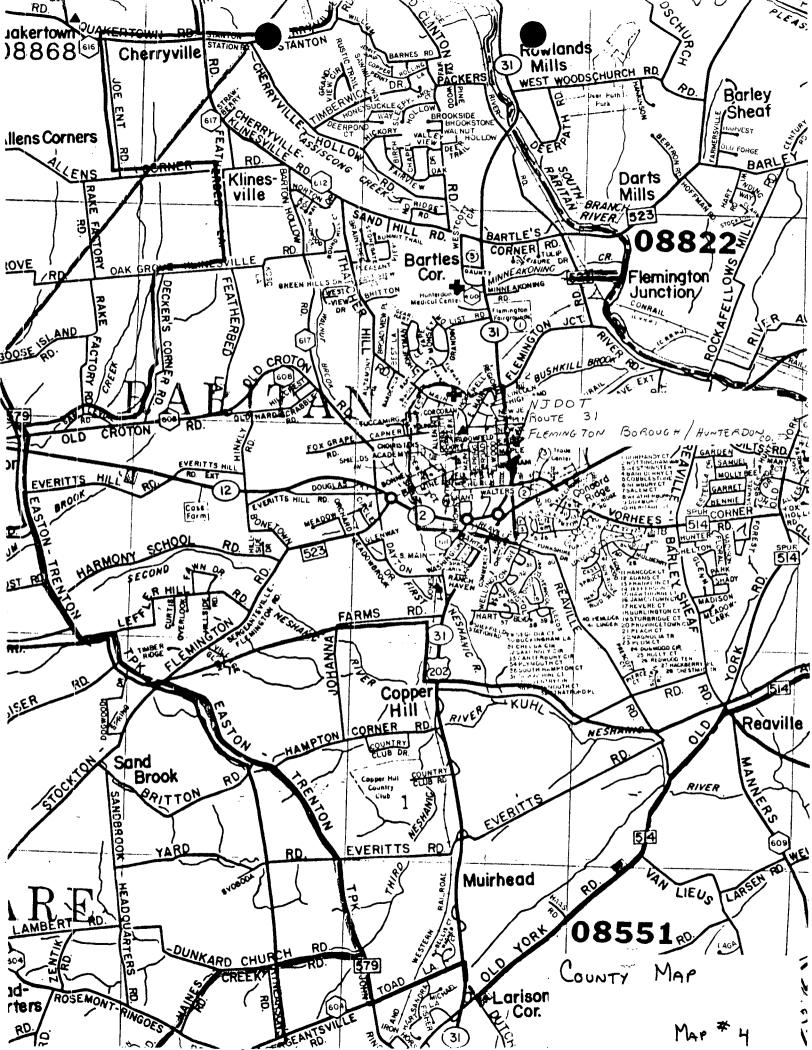
II. ATTACHMENTS

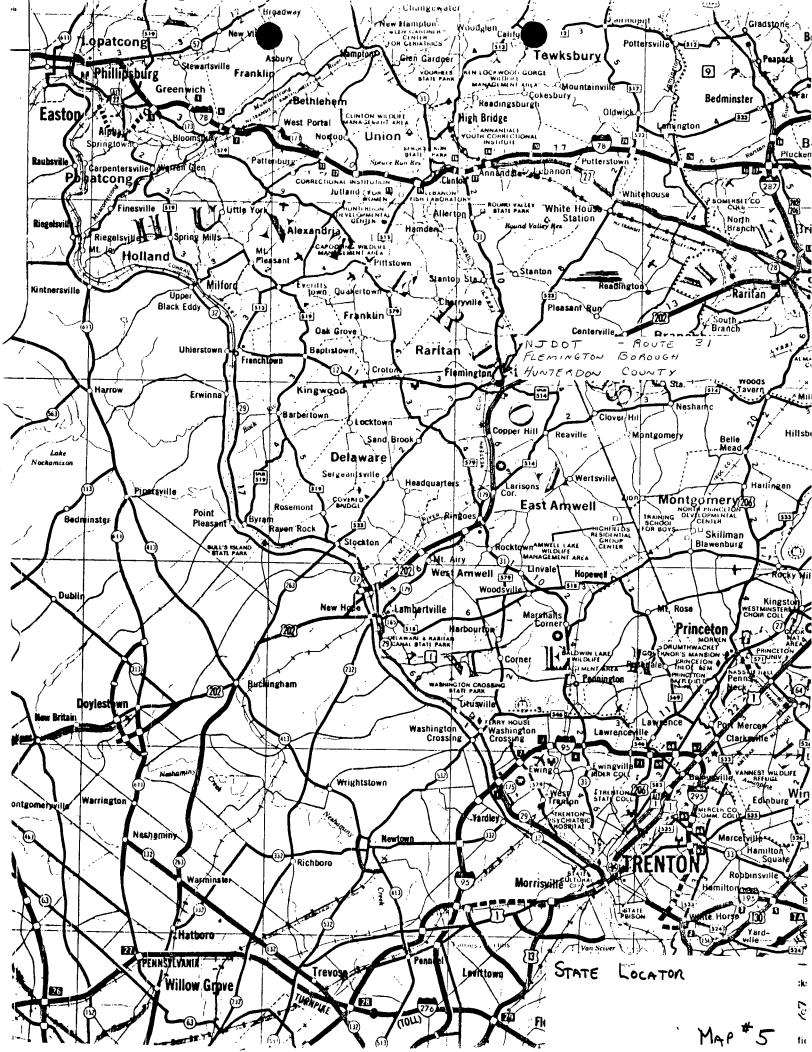
A ·.	HUNTERDON COUNTY DEMOCRAT NEWSPAPER	7-10-80
В.	Q.C. INC ANALYSIS OF ON SITE WELL	7-17-80
С.	Q.C. INC ANALYSIS OF PUBLIC WELL	7-10-80
D. E.	Q.C. INC ANALYSIS OF PUBLIC WELL	1-8-87
Ė.	E.P.A PRELIMINARY ASSESSMENT	2-7-80
F.	E.P.A SITE INSPECTION REPORT	4-18-80
G.	NJDEP - PUBLIC COMMUNITY WATER SUPPLY	12-4-86
Η.	MEMO TO FILE FROM FRANK FARANCA	4-27-87
I.	THE MERCK INDEX	1976
J.	DANGEROUS PROPERTIES OF INDUSTRIAL	
	MATERIALS - N. IRVING SAX	
K.	NJDEP - HAZARDOUS WASTE INVESTIGATION	9-9-82

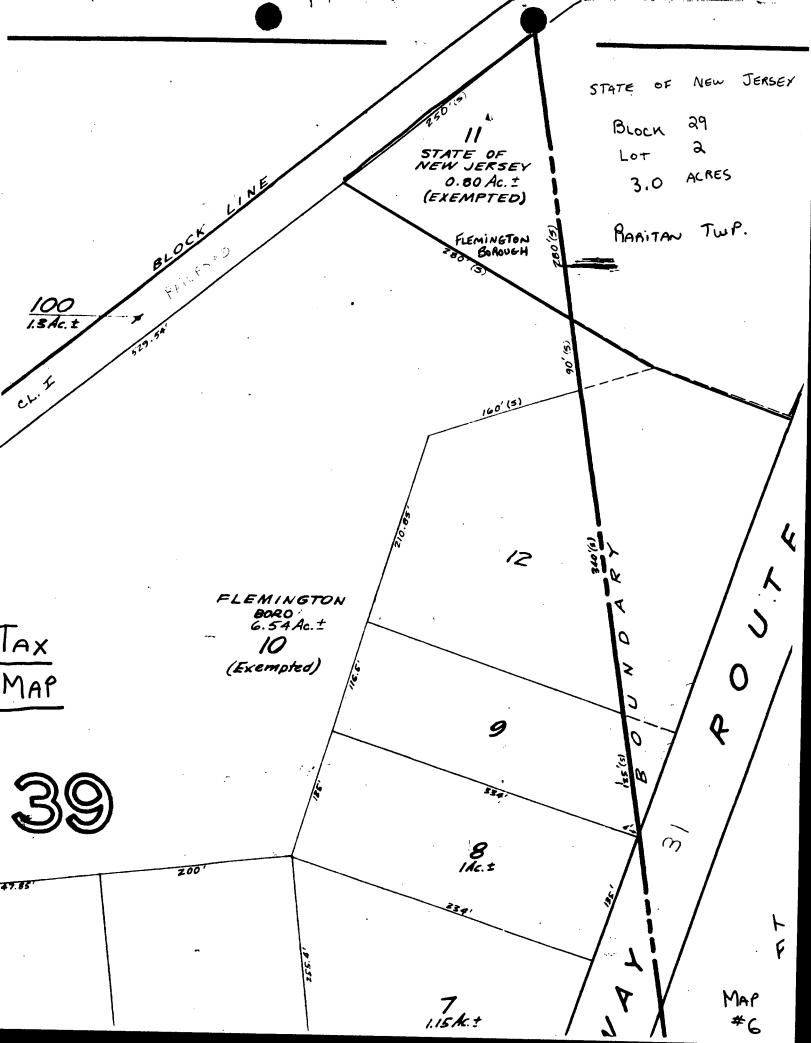


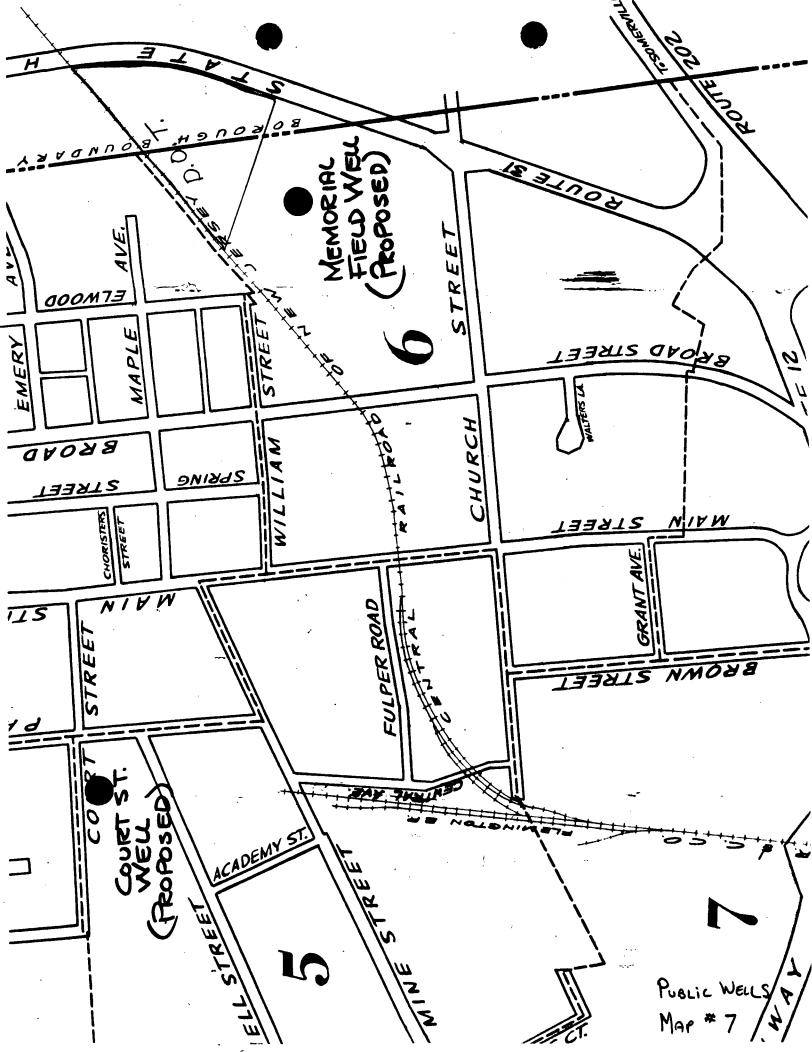












For Traces

By Jean Hays

Tests for lead are being made today in one Flemington Borough municipal water well and two private wells just over the boundary line in Raritan Township. Authorities are concerned because concentrations of lead in the body can be poisonous.

The wells are all located close to Route 31 near the Pioneers' football field and the Black River and Western railroad tracks where the Exxon Corp. buried lead sludge when it sold its property to the state Department of Transportation (DOT) in 1959. The department uses the area for storage of vehicles and materials for highway maintenance.

DOT moved the sludge in 1959, but authorities are concerned that traces may remain.

According to Richard Stothoff, the borough's water superintendent, the water from the municipal well being checked could "go to all people in Flemington since it feeds the entire system."

If high concentrations of lead are found in today's check, the state Department of Environmental Protection (DEP) will do further water and soil tests in the vicinity -especially in the seven or eight commercial and residential wells nearby.

"We simply won't know anything positive," said Stothoff, "until the water test results come back next week." He said the state requires that there be no more than .05 parts of lead per million parts of water.

According to records at the bureau of plant engineering and operation at DOT, Exxon had a "bulk" or holding station on Route 31 from 1928 to 1958. There were live tanks at the site that held gasoline. When, in 1958, DOT began negotiating the purchase of the land, it specified that all equipment and tanks be taken away.

Cleaned Out Tanks

"We figure that at that time," said Robert * Britton, who is the chief of DOT's plant engineering office, "Exxon must have cleaned out those holding tanks. The lead was partly settled in the bottom. It was, according to a sketched map we have from Exxon, simply buried behind their building."

In February of 1959, DOT asked Exxonto address the problem of the sludge. The reply, from Exxon's G.F. Starkweather, said that DOT should dig up the stuff and

redeposit it elsewhere.

"At present," said Starkweather, in a letter to DOT early in 1959, "the only acceptable method of disposing of such toxic leaded material is to bury it. We would recommend that it be transferred to a more suitable area. The area behind the rear fence in the open field might offer a possible

According to Britton, the sludge was removed later that year.

The whole project was done and imanced, he said, by DOT with technical advice from the Ethyl Corp. of New York Ethyl is a manufacturer of tetraethyl lead, which is added to gasoline to boost octane ratings. Britton said he was not sure how muchsludge was removed or where it was taken.

According to Ken Smith of the Exxon Corp., information on such an old site is limited. He said that these days, lead sludge is turned over to "private contractors who are required to dispose of the material in accordance with safe and approved methods set down by the state and federal governments.

Borough began looking into leasing or buying part of the property for the little ield, DEP was called in to do a theck so that DOT could authorize use of the land with a clear conscience. He said that was done in spite of the thorough clean up DOT did 21 years ago.

A visual check of the site was made three months ago, according to Wayne Hallets from the toxic substances investigative unit at DEP.

"The check," said Hallets, "revealed no signs of dying vegetation, residue or chemical leachate and there were no noticable caustic odors."

The area has been regraded since the lead was dumped and Hallets said that visible effects in a case such as this would

be rare.

"I am recommending," he said, "soil samples and I would also like to see a ground water <u>monitoring</u> well go in there. Also, there is a special lead study being conducted by DEP of the state's old junk yards-I'd like to see this site included.'

Robert Reed, also from DEP's toxics investigative team, said that whether any lead traveled from where it was dumped depends on the site. The rock formation, the solubility of the lead and the nature of the aquifer all make a difference, he said, in the ability of the lead to leach into ground water.

"Until we know whether the lead has contaminated nearby water supplies," said Reed, "we will hold off on the soil samples and a monitoring well. This is an old site that hasn't caused any trouble before. Once we know how much lead, if any, is there, we can place the site on a higher priority.

Poisoning Rare

According to Dr. Glenn Lambert, who is part of the Hunterdon Medical Center's poison control team, lead poisoning is a very rare problem in this county. He said that excessive automobile traffic is one of the biggest causes of lead problems, due to lead additives in gas.

"Around 10 to 35 micrograms of lead per 100 milhhters of whole blood is considered normal," said Dr. Lambert. "Over 60 is when medical treatment is usually needed."

According to Stothoff, the borough well being tested today was drilled three years ago, strictly for the South Hunterdon Little League. He said the well turned out to be a 150-gallon-per-minute producer and was redesignated for municipal use. All Flemington wells, he said, are tested weekly for detergents, intrates, bacteria, iron, suspended solids, color, hardness and other things - but not lead. And the private wells in the township are checked only at the discretion of their owners.

According to Stothoff, testing for lead is not normally done unless there is reason to suspect concentrations. He said that the test is relatively simple and mexpensive; it would cost about \$20 to have a private company test for lead. The borough, he said, has its water tested by Quality Control of Southhampton, Pa., but there are a number of other companies in the area that do such testing.

"Really," said Stothoff, "I'm not that surprised about this. We're talking about over 20 years ago; back then, it was just standard procedure to bury stuff like this. If you were to look at most every service station, I bet you would find the very same



QUALITY CONTROL LABORATORY DIVISION

1205 Industrial Highway, Southampton, PA 18966

E. W. Cook, V.M.D. A. F. Zimmermann



New Jersey Dept. of Transportation 999 Parkway Ave. Fernwood Service Street Trenton, N.J. 08625

CHEMICAL WATER ANALYSIS REPORT

date sampled	7/17/80
date tested	<i>77</i> 18780
date reported	07-5/80
sampled by	CFB
frequency	
copies to	S. Stothoff

(QC #6661)

ANALYSIS

OF ON-SITE

WELL

рН	mg/l	T
Total Hardness, as CaCO3	mg/l	
Calcium Hardness, as CaCO ₃	mg/l	
P Alkalinity	mg/l	1
M Alkalinity	mg/l	
Acidity	mg/l	
Total Dissolved Solids	mg/l	
Total Suspended Solids	mg/i	
Total Solids	mg/l	
Volatile Residue	mg/i	
Fixed Residue	mg/I	
Settleable Solids	ml/I	
Color	units	
Conductivity	mmhoş	
Odor, Threshhold Number		
Turbidity	units	
Chloride	mg/l	
Cyanide	mg/l	
Detergent (Syndets MBAS)	mg/l	
Fluoride	mg/l	
Oil and Grease	mg/l	
Phenois	mg/l	
Phosphate, Ortho, as P		
Phosphate, Total, as P	mg/l	- '
Phosphorus, Total	mg/l	······································
Silica	mg/i	
Sulfate	mg/l	
Sulfide	mg/I	
Sulfite	mg/I	

Ammonia, as N	mg/l	i
Kjeldahl Nitrogen	mg/I	
Nitrate, as N	mg/l	
Nitrite, as N	mg/l	
Organic Nitrogen	mg/l	
Chlorine Demand	mg/l	
Dissolved Oxygen	mg/l	
Biochemical Oxygen Demand	mg/l	
Chemical Oxygen Demand	mg/l	
Total Organic Carbon	mg/l	
Aluminum	mg/l	
Arsenic	mg/l	
Barium	mg/I	
Cadmium	mg/i	
Calcium	mg/I	
Chromium, Hexavalent	mg/l	
Chromium, Total	mg/I	
Copper	mg/l	
Iron	mg/I	
Lead	mg/I	<.001
Magnesium	mg/i	
Manganese	mg/l	
Mercury	mg/l	
Nickel	mg/i	
Potassium	mg/l	
Selenium	mg/l	
Silver	mg/l	
Sodium	mg/I	
Tin	mg/l	
Zinc	mg/I	

Q C INC.



.Flemington Water Dept.

QUALITY CONTROL LABORATORY

1205 Industrial Highway, P.O. Box 514, Southampton, PA 18966

RECEIVED

JUL 2 3 108"

BACTERIOLOGICAL WATER ANALYSIS REPORT

E. W. Cook, V.M.O.

A. F. Zimmermann

Hunterdom

Flemington, New Jersey OBSERPLEN OF POTABLE WATER

date sampled 7-10-80

date tested 7-11-80

date reported 7-24-80

sampled by CFB

frequency weekly

copies to Hunterdon Co.

R. Stothoff

VN.J. DEP

SAMPLE Water Samples	Standard Plate Count per ml	Total Coliform Count	Fecal Coliform Count per 100 ml MPN	Iron	Lead	
(QC #6493) Memorial Vall	perm			~ ∞	<.001	
(QC #6494) Sem Stothoff Well				<•@	<.001	
EMONN AVE IN 21 1						
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Q C INC.

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Olfort 7 Janmermann



1205 INDUSTRIAL HIGHWAY • P.O. BOX 514 SOUTHAMPTON, PA. 18966 • 215/355-3900

FLEMINGTON WATER DEPT.

38 PARK AVENUE FLEMINGTON, NU

9 0882.2

REPORT NUMBER: 87001360

REPORT DATE :01/14/87

SAMPLE DATE :01/08/87
SAMPLE TIME :04:20PM

SAMPLE TEMP : NA F

SAMPLED BY :JC COLLECTED BY :JC

ANALYSIS DATE :01/09/87 P.O. NUMBER :VOUCHER

PWS-ID NUMBER :1009001

TEST NUMBER W0214-MGL
TEST NAME DEAD
SAMPLE/CONTAINER UNIT MEASURE MC/L

WATER SAMPLE-MEMORIAL PARK WELL HOUSE

<0.005

392476 SINK

SAMPLE# COMMENT NOTE: EACH SAMPLE ABOVE IS GIVEN A UNIQUE ID# (PRINTED JUST BELOW THE SAMPLE)
SAMPLED BY JOAN CUMMINGS

392476 QCI/55322

392476 ALL TESTING IS CONDUCTED IN ACCORDANCE WITH E.P.A. METHODOLOGY.

NO DETECTABLE CONCENTRATION OF LEAD WAS FOUND IN YOUR WATER SUPPLY. THE EPA

RECOMMENDED MAXIMUM LEVEL IS 0.05 PPM.

Allen D. Schopbach, Tresident

SEIM

PENTIAL HAZARDOUS WASTE SITE IDENTIFIATION AND PRELIMINARY ASSESSMENT

RESIGN

SITE NUMBER (to he assigned by Hq)

G-7

II [

NOTE: This form is completed for each potential hazardous waste site to belt set priorities for site inspection. The information subbilitied on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and ca-site inspections.

GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (Preliminary Assessment). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

Flemmington N:5. Ht	UNTY NAME Interdon LEPHONE NUM IS P
Flemmington T. OWNER/OSCRATOR (II known) T. NAME T. NAME	ınterdon
Flemmington N:J. His code F. Co His J. James 1.	ınterdon
T. DWNER/OSTRATOR (If known) T. HAME	
12. TE	LEPHONE NUTTIFF
T T Done of Musical Action (Charles of Mary)	
N.J. Dept. of Transportation (State of N.J.)	<u> </u>
TI FEDERAL X 2. STATE 3 COUNTY TA MUDICIPAL TO PRIVATE TO UNKNOW	t u
A 4.2 acre site formerly a bulk station for stand (1928-1958).	lard oil;
Paul F. Toft Principal Engineer. Bureau of Plant Engineering & operatings. N.J. Dept. of Transportation	K. TATE TO ENTIFIED (mo., No. 4 and
L PRINCIPAL STATE CONTACT	2/7/80
1 MANE	ERHOME WHATE
II. PRELIMINARY ASSESSMENT (complete this section 1657)	
A. APPARENT SURIOUSHESS OF PROBLEM	the second secon
Пр. чили — [] г черчим <mark>X</mark> 1+ Low — Па иоче — Па пикио vu	
P. PECOMMENDATION	· · · · · · · · · · · · · · · · ·
1. NO ACTION NEEDED (no hazard) FT 2. PRINCIPATE SETE IN SPECTION IN	វត្តិព្រះព ម
1 STE INSPECTION NEEDED STEED FOR STEED STEED BY 4/18/80	·
h. with de the owner of	·
Wayne Howitz	PLOTER)
C. PREPARER INFORMATION	
1. NAME 2. TELEPHONE NUMBER	3. DATE (mo., dav. & yr.) .
Wayne Howitz (609) 292-9120	
III. SITE INFORMATION	
A. SITE STATUS I. ACTIVE (These industriel or municipal sites which are heing used for maste treatment, storage, or disposal on a continuing basis, even if infrequence.) Value	e l'midnight dimping!! where vaire disposal has accurred.)
D. 15 GENERATOR OR SITE! 1. NO	
C. APEA OF SITE (In acres) D. IF APPARENT SERIOUSNESS OF SITE IS VIOU. SPECIFY COORDINAL 1. LATITUDE (degmin-mer.): 12. LONGITUDE (deg	•
	7.5"
E. ARE THERE BUILDINGS ON THE SITE?	/.5"
1. HO 2 YES (*Feciliy): Dot Garage	···

- T2070 2 (10-79)

THE PROPERTY OF THE PARTY OF TH

	rate the major site	activities	es) and deta	uls relating to each as	117	ity by marking 'Y' is	i the	ol-bici	printe hoxes	
	A. TRANSPORT	ER		B. STOPER		C. TREATE		×	-	. DISPOSER
-	RATE		I DILF			FILTPATION		_	I. LANDEIL	- L
-	;. SHIP		1 SUNFA	CE IMPOUNDMENT	2	. INCINERATION			2. LAHOFA	EM ,
-+	1. BARGE		Ja. DRUMS		-	. VOLUME REDUCT!	ON.		3. OPEN DU	J#,#D
	4 TRUCK		4 TANH	ABOVE GROUND	1	. RECYCLING/RECO	VER	,	4. SURFAC	E IMPOUNDMENT
	S. PIPELINE		5 TANK.	BELOW GROUND		CHEM./PHYS. THE	~	 -	S. MIDNIGH	T DUMPING .
	OTHER (specify)			3 (specify)		BIOLOGICAL TREA			e menen	
		j	d ,	1	٦,	. WASTE OIL BEFRO	CESS	ING	TUNDERS	ROUND INJECTION
	7	٠		. 1		SOLVENT RECOVE	P 4		P OTHER!	specify)
						. OTHER (specify)				
£.	SPECIFY DETAILS O	F SITE AC	TIVITIES AS	NEEDED				l_		
				riod (1928-1	0.5	0) ctandard	_ ·	1 /	ECCO) 6	waned this
A				a bulk station						
4	.27 acre sr	he fol	llowing	as reparted 1	011 hsz	STD oil FH	m M	rce	Cupieu *******	kerosene
				was removed			- ,	_		A, Relosene
ـتــ	nu loso. A.	· · · · · · · · · · · ·		V. WASTE RELAT						
Α.	AASTE TYPE			THE STATE NEWSTREET						
:-	ון טאאאסאא <u>[</u>]	s Fichip	[_]3	. SOLID - {X}4 S	LU	nge I is a	ΑS			
9.	WASTE CHARACTER	ISTICS								
			SIVE [T]3	. IGNITABLE []4 F	A D	DACTIVE TIS HI	ICHL	Y VOL	ATILE	
_	Ve TOXIC	7 REACT	VE B	HERT 3	LA	NULABLE				
•										
<u>,</u> –]10. OTHER (specify)).								
₹.	MASTE CATEGORIES				FUT	***************************************	- 2:2 7 .	 12 11		
			2 Specify its	uns sach as m <mark>anif</mark> ests, u	IV PT	dories, etc. below.				
N	2									
		nt(specif)	y unit of mea	a: are) of waste by cate		v; mark 'X' to indic.	ate v	which v	wastes are p	resent. ,
	a. SLUDGE		OIL	c. SOLVENTS	1	d. CHEMICALS	I		LIDS	1. OTHER
Ars		THUCMA		AMOUNT :	7	10 UHT ,	AMS	UNT	-	AMOUNT
	?						_			
UN	IT OF MEASURE	SHIT OF M	EASUPE	UNIT OF MEASURE	1"	BT OF MEASURE	020	1 0 + 10	(EASIJE)	THE OF MEASURE
χ·	TIPAINT.	X. (11 OIL)	······································	X HALOGENATED	X	MACIOS	·×	IFLÝZ		Y LAUGHALDUY
	PIGMENTS .	W A S	TES	SOLVENTS				· r L Y 4		PHARMACIUT
	121 METALS SLUDGES	1210TH	ERispectly)	42) NON-HALOGNID SOLVENTS	1	tai,PICKLING LIQUOPE		21 A 5 D E	Estos	121HOSPITAL
1		~~		13' OTHER(specify)	1	(3) C A UST (CS	- -	31 MIL L		131 RADIOACTIVE
_							 - -	MITTE	TAILINGS	
	14) A LUMINEIM SLUDGE					14. PEST/C10/13		43 F F F1 1 5 M t. 1	ROUS IG. WASTES	(4) MUNIO IPAL
	(5) OTHER(specify):			·		(B) DY ESZACKS		5) 115.17 5) 5) 4 L	FERRIOUS TG. WASTES	
						(P) CAVIDE		10111	'Alsperdyr	
				1.1		(7) PHEHOUS			- -	
			•			'8) HALOGERS				
	ł				-					·
					_	(P) PCB				
						HOIME TALS				
	İ					(11) OTHER(*perily)			1	
			•		Г	= ' ' '		•		
							<u></u>		٠	
	A Form 12070-2 (10-79	9) -		RAG	. F	2 OF 4			C	ontinue On Page 3

THE PROPERTY OF THE PROPERTY O

3. LIST SUBSTANCES OF GREATES	ERN ERN	AHICH MAY	ED INFORMATI	(Old (continued) (place in Jew 22 order of hazard).
Lead sludge			ı	
nead Siddye.				
4. ADDITIONAL COMMENTS OR NA	RATIVE OF	SCRIPTION O	E SITILATION KNO	OWN OR REPORTED TO EXIST AT THE SITE.
			r strok net kno	ONA OR REPORTED TO EXIST AT THE SITE.
			•	
	В.		ARD DESCRIPT	TION
A. TYPE OF HAZARD	POTEN- TIAL HAZARD (mark 'X')	ALLEGED INCIDENT (merk 'X')	D. DATE OF INCIDENT (mo.,day,yi.)	E. REMARKS
1. NO HAZARO				
2. HUMAN HEALTH				
3. NON-WORKER 3. INJURY/EXPOSURE		.,		
4. WORKER INJURY				
5. OF WATER SUPPLY				
CONTAMINATION OF FOOD CHAIN				
CONTAMINATION OF GROUND WATER				
B. CONTAMINATION OF SURFACE WATER	,			
DAMAGE TO FLORA/FAUNA				
IO. FISH KILL				
I. CONTAMINATION OF AIR				-
2. NOTICEABLE ODORS				
3. CONTAMINATION OF SOIL	x	,		Lead sludge
4. FROPERTY DAMAGE ~~				
S. FIRE OR EXPLOSION				
c. SPILLS/LEAKING CONTAINERS!				
SEWER, STORM DRAIN PROBLEMS				
6. EROSION PROBLEMS		7,4 =		
2. INADEQUATE SECURITY				
3. INCOMPATIBLE WASTES			***************************************	
2. OTHER (specify)				
				• .
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		VII. PERMIT INFO	DRMATION
. INDICATE ALL APPL	CABLE PERMITS	Y THE SITE.	
1			
1 NPDES PERMIT	2 SPCC PLAN	3. STATE PERMIT	(specify)
4. AIR PERMITS	5. LOCAL PERMIT	6 PCRA TRANSPO	PATER
7 ROBA STORER	B PCRA TPEATER	T 9 PCRA DISPOSE	a ·
10. OTHER (specify)			
B. IN COMPLIANCE!			The state of the s
1. YES	2. NO	∑	· ·
4. WITH RESPECT T	O (list regulation name & r	sumber):	
	\	III. PAST REGULATO	DRY ACTIONS
X A. NONE	B. YES (summarize		A. Perion
		,,,,,	
		* •	
	TX. 18	SPECTION ACTIVITY	(past or on-going) None to date
A NONE	B. YES (complete itel	ns 1,2,3, & 4 helaw)	
	2 DATE C	F 3 PERFORMED	
1. TYPE OF ACT V	PAST ACTI		4. DESCRIPTION'
	·		
			·
•			
	<u> </u>		
	X.	REMEDIAL ACTIVITY	(past or un-roing)
A. NONE	B. YES (complete ite.	ms 1, 2, 3, & 4 below)	
4 = 4 = 4 = 4 = 4	2.DATE C	F 3. PERFORMED	
1. TYPE OF ACTIV	PAST ACTIO		4. DESCRIPTION
<u> </u>	•		
<u> </u>			·
			,
· · · · · · · · · · · · · · · · · · ·			
NOTE: Based on the	information in Section	is III through Y 611	out the Preliminary Assessment (Section II)
			out the cremminary Assessment (Section II)
information of	the first page of this	iorm.	

EPA Form T2070-2 (10-79)

PAGE 4 OF 4

GENERAL INSTRUCTIONS Compages on this form to develop a Tent trib. He sure to include all appro- tion from Agency. Site Trucking Sys-	attention (Section II). privite Supplemental Reports in	File this form in its eather the file. Submit a copy	ety in the regional Ha of the forms to: U.S. I	izardous Waste Log
	I. SITE IDE	ITIFICATION	· · · · · · · · · · · · · · · · · · ·	<u> </u>
A. SITE HAME		B. STREET (or other Ident		
N.J. DOT Maintena	nce Yard	West of Rt.3		
Flemington		N.J.	Hunterd	
1 MANSE		•	2. TELEPHON	IE NUMBER
1. STHEET	4. CITY		B. STATE	6. ZIP CODE
IT REACTY OWNER THEORIGATION (il dillerent frum operator of aite)		2. TELEPHON	NE NUMBER
7 - 17		 	4. STATE	S. ZIP CODE
I. SITE DESCRIPTION	-			,, <u>k</u> ,,,,,
A 90' x 180' Area.		presumably wa	as buried.	
11. FEDERAL TX 2. STA	TE 3. COUNTY []	4. MUNICIPAL [] 5.	PRIVATE	·
	II. TEHYATIVE DISPOSITION		last)	
A, ESTIMATE DATE OF TENTATIVE DISCOSITION (mm, ilay, & vr.)		Z. MEDIUM [] 1.	LOW [] 4. HON	Ε
C. PREPARER MEQUIATION				
		2. TELEPHONE NUMBER		• •
Wayne Howitz		(609) 292-912	20 4/30	/80
A PHINCHIAL INSPECTOR PHEORMA		N INFORMATION .		
1 2/4/11		2. TITLE		
Wayne Howitz		<u>Enviornmenta</u>	Specialist	IE NO.(area code & no.)
N.J. DEP TSIU			(609) 2	92-9120
B. INSPECTION PARTICIPANTS				
1, NAME	2. OHGA	NIZATION	. J. TEL	EPHONE NO.
~				
1 THE REPRESENTATIVES INTER				
Paul F. Toft	Principal Engine N.J. DOT(609)292	er .	arkway Ave. T	ronton N T
rudi i. ioit	N.U. DOI (009) 292	-3307 1035 Fa	irkway Ave. I	08625
			-	
			- Company of the Comp	<u> </u>

SITE INSPECTION REPORT

ΙI

G-7

, <u>3</u>,

Standard Oil				Lead	Sludge
					
. TRANSPORTER/HAULER INFOR	MATION C	n site diamen	1		•
	TELEPHONE	n site disposa	3. ADDRESS	4.WASTE TY	PETRANSPORTE
			•		
		·			
, IF WASTE IS PROCESSED ON SI	TE AND ALSO	SHIPPED TO OTHER SITES	. IDENTIFY OFF-SITE FACIL	LITIES USED FOR	DISPOSAL.
1. NAME 2.	TELEPHONE	NO.	3. ADCRESS		
			-		•
		·			······································
					<u> </u>
DATE OF INSPECTION H. T	IME OF INSO	FCTION LACCES CAME			
(mo., day, & yr.) 4/18/80 11	:00AM-1	2:00 PMX 1. PERMISSI	ON The SARRANT	wn in all cases)	
WEATHER (describe)				0	
Sunny, small bree	ze emin			4 F	
Mark 'X' for the types of sumplete, and estimate when the res	les taken and	IV. SAMPLING INFOR Indicate where they have	MATION been sent e.g., regional la	b, other EPA lah	contractor
etc. and estimate when the res	ults will be a	vailable.			, contractor,
1.SAMPLE TYPE	TAKEN (mark'\')	3.	SAMPLE SENT TO:		4. DATE RESULTS
CHOUNDWATER	<u> </u>				AVAILABLE
SURFACE WATER	-	*Note: no samp	ling to date		
SUNFACE WATER	<u>.</u>				
. #45TE			•		
A 1.	<u> </u>				
	 				
HUNOET -					
St (r. c.					
	 				
1011.		-			
21 G1 TA 110N			•	1	
		7.4.5			
CITETICAPACITY)		1,5	•		·
21 GL TA 110N		lty, explosivity, PH, etc.)			·
FIELD MEASUREMENTS TAKEN (1	2. LSCA	TION OF MEASUREMENTS		3. HESULTS	
CINETIATION CINETIATION FIELD MEASUREMENTS TAKEN (TION OF MEASUREMENTS	below limit		ctibility
FIELD MEASUREMENTS TAKEN (2. LSCA	TION OF MEASUREMENTS			ctibility
FIELD MEASUREMENTS TAKEN (1	2. LSCA	TION OF MEASUREMENTS			ctibility
FIELD MEASUREMENTS TAKEN (1	2. LSCA	TION OF MEASUREMENTS		s of detec	ctibility
FIELD MEASUREMENTS TAKEN (1	2. LSCA	TION OF MEASUREMENTS			ctibility

199165		************************		
e, some or emotos		2. PHOTOS	N CUSTODY OF	
(X #. SHOOMS []	1 E. At Friag	N.J.	DEP TSIU	
X ALP PRECIES FOR	ATION OF MAPS	ttached		
COORTINATES				
t LATITUDE (degreminie)	ec.)		2 LONGITUON (degminisec.)	
<u>40°30'25"</u>			74°53' 27.5"	
5171 51ATUS		V. SITE INF	ORMATION	
1 ACTIVE (Thuse me	Sumator 1 " i :	NACTIVE (Those	1 (7)	
omo qual rete, which ere or existe treatment, storic	tiring used site a	'm h no longer receive	(Those sites that include such in	cidents like "midnight dumping"
n a comuniang hasis, eve		,	where no regular or continuing us bus accurred.)	e of the site for waste disposal
mently, i				
SEMERATOR ON SITE			-	
	YES(specify general in			
AREA OF SITE (In nur.		THERE BUILDINGS O	k station for star	idard oil
·	1 1	110 K 2. YES		
90'x 180'(Bu	ried	see at	tached plot plan	
le	ad sludge),	HARACTERIZATIO	N OF SITE ACTIVITY	
icate the major site ac	tivity(ies) and detail	relating to each ac	tivity by marking 'X' in the appre	opriute boxes.
A. TRANSPORTER		STORER	C. THEATER	D. DISPOSER
MAR.	1.041		1 + 1L 11 A [10:1]	1. LANDEILL
\$1016	2.5UH 13	н вигопиривит	2. 114 (1111) 1 A 1 (1114	2.1 ANDFAGM
HALLIE	3.10000		I VOLUM IN HUCHON	I CPEN DOMP
CIPI A PH		LLOW GROUND	4 RECYCLOUGHECOVERY	4. SURFACE IMPOUNDMENT
Color sc(specity)	0. O THE 41		6. BIOLOGICAL THEATMENT	5. MIDNIGHT DUMPING 6. INCINENATION
			J. WASTE OIL HE PROCESSING	7. UNDERGROUND INJECTION
	•		H. SOLVENE HE COVERY	H. O THER (Apecify)
			9. OTHER (specify)	
			•	
•				
		,		
DPPLEM NTAL REPORT Justi Supplemental Report	15. If the aite fall: o	thin any of the categor	ica listed below, Emplemental Repor	rts must be completed, Indicate
1 STORAGE		ON [] 3. EANDFIL	CT SULLAGE	5. DEEP WELL
6 CHEM/BIO/ PHYS TREATMENT	[] 7. LANDFARH	X B. OPEN DU	MP [] 9. TRANSPORTER [10. RECYCLOR/RECLAIMER
		II. WASTE RELATE		
ASTE TYPE 1 LIQUID	[]] 2. SOLID	[X] 3. SLUDGE	[] 4. GAS	
ASTE CHARACTERISTIC	<u> </u>			
1 CORROSIVE	2. IGNITABLE	T 3. RADIOAC	TIVE [] 4. HIGHLY, VOLATILE	·
5 TOXIC		[_] 7. INERT	O. FLAMMABLE	
9 OTHER (procity) ASTE CATEGORIES	Unida) Successive			
o, however st	dader Specify Hear of Landard oil L. 28! S.E.	reported the	at lead sludge was R.R. tracks.	buried 4,200' *
Firm 12070-3 (10-79)		PAGE 3	OF 10	Continue On Reverse

READ Yao FEET.

****	A MOUTE T	A+ 1-1U*41	A her tite !	ARTURET	AMOUNT
?					
WIT OF MEASURE	UNIT OF MEASU	SAT OF MEASURE	UN TOL SHAFE	TOF MEASURE	UNIT OF MEASURE
1 1-41-11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AT DILY	SOLVENIS	H. ACTON	1	(I) LABORATORY, PHAHMACEUT,
METALS SLUDGES	21 OTHER(specify)	NON-HALOGNICO 21 SOLVENIS	(2) PICHLING	171 ASDESTOS	(2) HOSPITAL
1311/11/19		a Coty Enterpocity)	131 C AUS 110 S	MILLINGTHIE	(3) RADIOACTIVE
AL UMINUM		,	(4) PHSTICILL	FERROUS SINE	LT MUNICIPAL .
THE OTHER (*Pecify)	۶		INTERNATION	SMLTG. WASTE	(5) GINER(*p*city)
Lead sludge			TENCY A MILE	INI OTHER(Apocity	or
			MPHENOLS		
			(8) HALOGERS		
		¥	(9) 12 ()		
			United 1 A L 5		·
			A I I O THE HESP	estry i	
E. LIST SUBSTANCES	OF GREATEST CONCE	THE WHICH ARE ON THE	JTF g lace in dex.	enging order of hexitidi	
1. SUH\$17	ANCE	mark (X1) (1	TOXICITY nork 'X';	4. CAS NUMBER	5. AMOUNT 6. UNIT
		Lig. Pou ingo	CO () C Ow Travers		
Lead Sludg	e			7439-92-1 Ur	nknown
u e e e e e e e e e e e e e e e e e e e					
				•	
					·
FIELD EVALUATION		VIII. HAZARD		te that the listed huzurd e	exists. Describe the
X A HIMAN HEAL					
lead sludg	A re e was buried	. My inspect:	ion revéal	Lot ll) Borde Led no visible	evidence of
such, howe	ver the slud ded and reve	ge was presumagitated. The	ably burie potential	ed over 22 year for human hea	s ago and the lath hazards

EPA Frim T2070-3 (10-79)

PAGE 4 OF 10

Continue On Page 5

· 				e
C. WORKER INJURY/EXPOSURE		• •		
		•		
•	•	·		
• •				•
	•		.=1=	•
			_	
D. CONTAMINATION OF WATER SI	UPPLY			•
Nearby re	esidences are on	public water.		
	÷			_
				,
			•	
CONTAMINATION OF FOOD CH	AIN			
	6) 13			
N/A	`			
••		•		
	•	•		
. CONTAMINATION OF GROUND	WATER			-
	is approximate.	ly 4' below the s	surface. Grou	ndwater
	,	rate part	-010100 01 10	
		·		
		· .		
,				
·	WALL OF		•	
·	WATI R			·····
·	WARL R	•	•••	,
·	WATI R		· ·	
·	WARI O	•	•••••••••••••••••••••••••••••••••••••••	
	WATI R	•	· · · · · · · · · · · · · · · · · · ·	
	WATI E	•		
CONTAMINATION OF SURFACE	WATI R			
		S OF 10		inue On Reverse

•

i. Millatin ;.

I FISH KILL N/A J. CONTAMINATION OF AIR N/A X K. NOTICEABLE COORS No noticeable odors (that may be attributed to chemicals/sludge) were noticed during my inspection. X 1. CONTAMINATION OF SOIL Soil contamination is very likely, due to the chemical nature of lead and it's slow dissipational breakdown in the environment. M. PROPERTY DAMAGE N/A

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FG

Continue On Page 7

			•		
					•
. O SPILLS LEAKING CONTAINERS RUN	OFF/STANDING LIQUID	•			
•	,				
_			.•		
		•	•		
•					
•	•		-	•	٠.
P. SEWER, STORM ORAIN PROBLEMS	· · · <u>- · · · · · · · · · · · · · · · ·</u>				
] P. SEWEN, STONM DIVING PHOBLEMS	•				
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.] Q. EROSION PHOBLEMS					•
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٨.					
1 R. INADEQUATE SECURITY					
THE INACTORATE SECURITY			•	·	
•			•		
Open area			•		
					٠
•					
·		•			
	12 "				
S. INCOMPATIBLE WASTES			b		
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		. ! .			
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			-	•	•
			-	. '	• -
PA Form T2070-3 (10-79)	PAGE 7		-	Continue On Reverse	

99 L. ... 35.

, i

	VIII. HAZARD DE	SCRIPTION (continued)		
". MIDNIGHT DUMPING				
	•			•
		•		
				•
	v	•		
		•		
	•			
U OTHER (epecits)				
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-	•			•
				•
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	•			
	•			
			•	
	•	•		
	IV PORTH ATION DIREC			
	TA. FORDEATION DIREC	TLY AFFECTED BY SITE		
ALLOCATION OF POPULATION		C. APPROX. NO. OF PEOPLE	D. APPROX. NO.	E. DISTANCE
THE COLUMN OF POPULATION	PLAPPROX. NO. OF PEOPLE AFFECTED	AFFECTED WITHIN UNIT AREA	OF BUILDINGS	TOSITE
		OWIT AREA	AFFECTED	(*pecily units)
1 HO SHE SHE METAL AND AS		· .		
2. The SOURCE COAL		•		-
TOURISTRIAL AREAS	Central R.R. of N	ew Jersey		28' S.E.
THE PROPERTY.			ļ	- 20 0.1.
THAVELLED AREAS	·			
f			ļ <u> </u>	
4 FUBLIC USE AREAS	Flemmington Memor	ial Park Associa		7501 17 55
			tion]150' N.W.
GENTH TO GHOUND HATER POPE	X. WATER AND	HYDROLOGICAL DATA		
4 '		C. 6	HOUNDWATER USE IN	VICINITY
POTENTIAL VIELD OF AQUIFER	- S.E.		••	•
TO STEW TIRE TIELD OF AQUIFER	* DISTANCE TO DRIV	KING WATER SUPPLY F. D	IRECTION TO DRINKI	S WATER SUPPLY
		nure.		
. TYPE OF DRINKING WATER SUP	PLY			· · · · · · · · · · · · · · · · · · ·
1. HON-COMMUNITY	2. COMMUNITY (specify town)	!	-	,
" 15 CONNECTIONS"	> 15 CONNECTIONS -			•
1 3. SURFACE WATER	4. WELL			
A Form T2070-3 (10-79)		0.05.40		·
	PAGE	8 OF 10	- Contin	ue On Page 9

F

CHARLES HER STATE OF THE STATE

- Comment :: 17

TA, PERMIT TYPE	B. 15580+5 AGE 465	C. PETAMIT. Pleiming sa	D. 414.17 155.18.07	E. EXPIRATION DATE	F. IN COMPLIANCE		
			from the Astro		165	1.0	3. UA
							1
						ļ	
						<u> </u>	
			•				
-		-					
							-
			1				1
PRISE [] YES CAUDING	XV. P. ST.	REGULATORY OR E	NFORCEMENT ACT	IONS			
PRISE () YES CAUMING	XV. P. ST.	REGULATORY OR E.	NFORCEMENT ACT	IONS			
HIGHE () YE'S (AUTORIA)	XV. P. ST.		NFORCEMENT ACT	IONS			
HISHE YE'S CAUMING	XV. P. ST.		NFORCEMENT ACT	IONS			
HISHE YES CAUMING	XV. P. ST.		NFORCEMENT ACT	IONS			ı
Hight () YE's (numme)	XV. P. ST.		NFORCEMENT ACT	IONS			ı
HISHE YE GALLONS	XV. P. ST.		NFORCEMENT ACT	IONS			
Hight () YE's (Auminia)			NFORCEMENT ACT	IONS			

ROTT Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of the torus

EFA Form T2070 3 (10-79)

PAGE 10 OF 10

Fo

1

Out of rom Page 8				•
H. LIST ALL DRINKING WATER WEL	LS NITHIN A 1 4 MILE RADIUS OF SITE	DATA (ontd)		
	ES WITHIN A L AMICE MADIUS OF SITE			
1. AFLL (Specify unit)	3. LOCAT (prosimity to populati	ON on/buildinge)	NON-COM- MUNITY (mark 'X')	COMMUN ITY (mark 'X'
/				
	,	•		
TRECTIVING WATER				·
1. NAME		TREAMS/RIVERS		• .
Walnut Brook				***************************************
FW-2 according (Docket# DEP 012-7	to the N.J. DEP Surfa 4-11).	ce Water Quality S	Standards	;
	XI. SOIL AND VEGITATION	IDATA		
A. KNOWN FAULT ZONE	[] B KARST ZONE [] C		D. WETLAND	
*1 F. A REGULATED FLOODWAY	THE CRITICAL HABITAT GG	RECHARGE ZONE OR SOLE SOU		•
Mink 'X' to indicate the type(s) of a	All. TYPE OF GEOLOGICAL MATER	IAL ODCEDUED		
1 x	cological material observed and specify	where necessary, the componen	t parts.	
A. GVERRURDEN	D. NEDROCK (specify tisline)	C. OTHER (OP	ecity below)	
113-	-3½ feet (Shale)			
, GRAVEL			· · · · · · · · · · · · · · · · · · ·	
	NIII con			
The second secon	XIII. SOIL PERMEABILI	TY		
(A. UNRUDBU D. MODEHATE (III io., Fem. 9611) OIL HAIGE AHLA	[] E. VERY HIGH (100,000 to 1000 cm/s	C. HIGH (1000 to 10 c		.)
	MENTS			
arout	MF N 1 S		•	
2-68	ст у рокстры би всоик, соноттон	or score, etc.		,
Accor for Hunterdon County Reaville silt loam.	ding to the U.S. Dept. This area consists o Representative profil ilt loam, shaly silt l	f the following so	oil serie	ey es:
PA Form 12070-3 (10-79)	FAGE 9 OF 10		Continue On Re	vora e

Fio



DIVISION OF WATER RESOURCES ENFORCEMENT & REGULATORY SERVICES



PUBLIC COMMUNITY WATER SUPPLY

DATE December 4, 1986

	DATE
GENERAL INFORMATION	
FURVEYOR Flemington Water Department	
FILE LOCATION BOROUGH of Flemington Hunterdon	Co. PW-ID # 1009 001
MAILING ADDRESS 38 PARK Ave, Flemington, N	1 08822
ADMIN. Richard Stothoff	REQUIRED T-1 Richard LICENSES -2 STOTHOFF
	201) 782-8840 W-4 (20.) 782-8840
FACILITY DESCRIPTION	· .
SOURCES: descriptions, locations, capacities(mgd): Well #4, Reaville	Ave 0.262 Mgd
#5 - Court Street - 0.331mgd; # 6-	Memorial Park - 0,158mg
#7- Route 12 0.302 mgd	
J	Est Tot Eff Cap: 1,053 mgd
TREATMENT: source, type, capacities(mgd): #4 - 645 ch or natice	- WAllace & Tiernan - 10lh/day
#5- GAS Chloring tion, WaT 10lb/day cape	#6-6-15 Chloring ton,
Wat - 4#/day: #9 - Gas Chlorination =	1
	Est Tot Eff Cap: 1.053 mgd
FINISHED WATER STORAGE: descriptions, locations, capacities(mg):	dppe located AFF
Shields Ave, 1.00 mg, GRAV. IT Fee	s d
J	
	Est Tot Cap: 1.0mgd
EMERGENCY INTERCONNECTIONS: descriptions, available gallonage(mgd):	
Flizabethton, water (o, 4"main	
Made (ten supply 6"main	
	A 1135
AUXILIADA	
LARAGE	<u> </u>



NJDEP - DIVISION OF WATER RESOURCES PUBLIC COMMUNITY WATER SUPPLY INSPECTION



DELIVERY INFORMATION
PLANT DELIVERED WATER (mgd_month,year) Max 0.722 5/84 Min 0.6286 8/86 Average . 664
BULK PURCHASES (provider,mgd) None
BULK SALES (customer, mgd) None
NUMBER OF SERVICES 1229 % METERED 100 %
MUNICIPALITIES SERVED (est. services in each) Fleming fon Borosyh, Raritan - Fr.
TOTAL ESTIMATED POPULATION SERVICED 4237
CURRENT/RECENT WATER RESTRICTIONS None
NEW CONSTRUCTION
(Project Numbers) None (min) to 12" (max) Pressures 40951 (min) to 60951 (max) Hydrants/Flushing Program 4es twice per year?
MONITORING & REPORTING
PARAMETER(S) FREQUENCY REQUIRED FREQUENCY PERFORMED
Coliforn 5 per month oer month inorganics 1 per 3 years one 6/84 due 6/87 Nitrate 1 per 3 years one 6/84 due 6/87
Trihalomethanes Organics
Turbidity Radiological every 4 deans complete & 6/86 Secondary every 3 years done 5/84 due 5/87 ADRO twice per year 5/86 due 12/86
NAME OF LABORATORY Ouglity (on trol Lab CERTIFICATION # 77166
ADDRESS South Ampton PA
COMPLIANCE EVALUATION
Λ/-
SOURCE DEFICIENCIES
TREATMENT DEFICIENCIES
•

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

то	FILE - NJDOT (FLEMINGTON)	DATE
FROM	FRANK FARANCA, HSMS IV	
SUBJECT_	SITE RECONNAISSANCE	

At 1000 hours on 4-27-87 the writer conducted a site reconnaissance of the NJDOT Maintenance Yard located on Route # 31, Flemington Borough, Hunterdon County. The NJDOT facility is completely fenced to prevent access by unauthorized personnel. The facility is boardered by Route # 31, the Central Reilroad of New Jersey and Flemington Borough Memorial Park. The site itself is relatively level, however surface water flow direction is to the north-east toward an intermittent stream leading to Bushkill Brook.

FF:mz

THE MERCK INDEX

AN ENCYCLOPEDIA OF CHEMICALS AND DRUGS

NINTH EDITION

ELSAMO

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Margaret Noether Fertig, Assistant Editor

Published by

MERCK & CO., INC.

RAHWAY, N.J., U.S.A.

1976

fonyl chloride and monochlorobenzene; also by Sandmeyer diazotization of 2,4,5-trichloro-4'-aminodiphenyl sulfone in the presence of CuCl: Meltzer, Huisman, U.S. pat. 2,812,-281 (1957 to Phillips); Huisman et al., Rec. Trav. Chim. 77, 103 (1958).

Crystals from benzene; mp 146.5-147.5°. Stable to concd and dil alkalies, mineral acids, high temp, and u.v. light. Soly data: Huisman et al., loc. cit. LD50 in rats: 556 mg/kg orally, Ben-dyke et al., World Rev. Pest Contr. 9, 119 (1970). USE: Acaricide. Ovicide on deciduous fruits, citrus, cotton and other crops.

8917. Tetraethylammonium Bromide. N.N.N-Triethylethanaminium bromide; TEAB; TMD-10; Etylon; Etambro; Sympatektoman; Tetranium. C₂H₂₀BrN; mol wt 210.16. C 45.72%, H 9.59%, Br 38.03%, N 6.67%. (C₂H₅)₄NBr. Ganglion blocking agent. Prepd from triethylamine and ethyl bromide: Hofmann, Ann. 78, 263 (1851). Review of the pharmacology of the tetraethylammonium ion: Moe, Freyburger, Pharmacol. Rev. 2, 61-95 (1950).

Deliquesc crystals. Freely sol in water, alc, chloroform, acetone. Slightly sol in benzene. pH of a 10% aq soln 6.5. The pH is not changed by heating for 28 hrs at 95°.

8918. Tetraethylammonium Chloride. Etamon chloride; T.E.A. chloride. C₁H₂₀CIN; mol wt 165.71. C 57.98%, H 12.17%, Cl 21.40%, N 8.45%. (C₂H₅)₄NCl. Ganglion blocking agent. See Tetraethylammonium Bromide.

Deliquescent crystals. d21 1.0801. Freely sol in water, alcohol, chloroform, acetone; slightly sol in benzene. pH of 10% aq soln 6.48. The pH is not changed by heating for 28 hrs at 95°.

Tetrahydrate, monoclinic prismatic crystals. mp 37.5°.

8919. Tetraethylammonium Hydroxide. $C_8H_{11}NO$; mol wt 147.26. C 65.25%, H 14.37%, N 9.51%, O 10.86%. $(C_2H_3)_4NOH$. Made from the corresp halide by treating with silver oxide or with a soln of potassium hydroxide in methanol.

Marketed as an aq soln. A 10% soln has a d25 of about 1.01. The free base is known only in soln or as hydrates; tetrahydrate, mp 49-50°; hexahydrate, mp 55°. Dec on boiling. It is a very strong base readily absorbing CO, from the air. The aq soln is colorless, odorless, bitter, caustic, strongly alkaline, and imparts a soapy feel to the skin. Keep well closed.

8920. Tetraethylammonium Iodide. $C_9H_{20}IN$; mol wt 257.17. C 37.36%, H 7.84%, I 49.35%, N 5.45%. $(C_2H_5)_4NI$. Made from triethylamine and ethyl iodide.

White to yellowish crystals. d 1.566. Does not melt below 200°. Sol in water, alcohol; sparingly sol in chloroform; insol in ether.

8921. Tetraethyllead. Tetraethylplumbane; lead tetraethyl; TEL. $C_0H_{20}Pb$; mol wt 323.45. C 29.70%, H 6.23%, Pb 64.06%. Pb(C₂H₅)₄. Prepd by the action of PbCl₂ on zinc ethyl or on a Grignard reagent; by heating C2H5Cl and sodium-lead alloy in an autoclave. The production from lead, ethylene, and hydrogen using triethylaluminum as intermediate was first described by K. Ziegler at the 14th International Congress of Pure and Applied Chemistry (July 1955): Chem. & Eng. News 33, 3486 (1955). Alternate synthesis using nonhalide compds: Pearson et al., Advances in Chemistry Series 23, 299-305 (1959).

Colorless liq; burns with an orange-colored flame with green margin. Extremely poisonous! d^{20} 1.653. bp about 200° also stated as 227.7° with decompn. n_D^{20} 1.5198. Practically insoluble in water; soluble in benzene, petr ether, gasoline, slightly in alcohol. LD₅₀ orally in rats: 12.3 mg/kg, Schroeder et al., Experientia 28, 923 (1972).

USE: As a gasoline additive to prevent "knocking" in motors. See also Milde, Beatty, "Chemical Reactions of

Tetraethyllead" in Advances in Chemistry Series 23, 306-318 (1959). Caution: Acute or chronic poisoning may occur if inhaled or absorbed through skin. See E. Browning, Toxicity of Industrial Metals (Appleton-Century-Crofts, London, 2nd ed., 1969) pp 192-199.

8922. N,N,N',N'-Tetraethylphthalamide. N,N,N',N'Tetraethyl-1,2-benzenedicarboxamide; orthophthalic acid didiethylamide; o-phthalic acid bis[diethylamide]; tetraethunispiran. C₁₄H₂₄N₂O₃; mol wt 276.37. C 69.53% of 8.75%, N 10.14%. O 11.58%. Prepd by treating prunary chloride with diethylamine: Fr. pat. 785,428; Brit. pat. 443,396; U.S. pat. 2,057,145 (1936 to Chem. Fabrik Grünau); by heating sodium phthalate with diethylamine phosphate: Fr. pat. 866,229 (1941 to Corbière).

Crystals, mp 39°. bp 175-180°. Soluble in water, physiol saline.

THERAP CAT: Analeptic.

8923. Tetraethyl Pyrophosphate. Diphosphoric acid tetraethyl ester; pyrophosphoric acid tetraethyl ester; bis-O.O-di-ethylphosphoric anhydride; TEPP: Bladan: Nifos T; Kilmite 40: Vapotone: Tetron; Killax: Mortopal. C₈H₂₀O₇P₂; mol wt 290.20. C 33.11%, H 6.95%, P 21.35%, O 38.59%. Prepd commercially by controlled hydrolysis of O.O-diethylphosphoric acid chloride: Kosolapoff, U.S. pat. 2,479,939 (1947 to Monsanto); Toy, J. Am. Chem. Soc. 70, 3882 (1948). Chemical history and comparison of various syntheses: G. Schrader, Die Entwicklung Neuer Insektizider Phosphorsäure-Ester (Verlag Chemie, Weinheim, 3rd ed., 1963) pp 68-79.

Mobile liquid. Agreeable odor. Hygroscopic. d_0^{20} 1.185. Thermal decompn range 170-213°-with copious formn of ethylene. bp_{0.05} 82°; bp_{1.0} 124°; bp_{2.3} 138°. Vapor pressure at $30^{\circ} = 4.7 \times 10^{-4}$ mm Hg. n_0^{20} 1.4196. Miscible with water, but quickly hydrolyzed by it (half life at 25° about 7 hrs in a 50 ν/ν mixt). Also miscible with patterns methodol, ethal 50 v/v mixt.). Also miscible with acetone, methanol, ethanol, benzene, chloroform, carbon tetrachloride, glycerol, ethylene glycol, propylene glycol, toluene, xylene. Not miscible with petr ether, kerosene, other petr oils. LD50 orally in rats: 1.12 mg/kg; topically in rabbits: 5 mg/kg.

USE: Insecticide, especially to control aphids, thrips, and mites, instead of nicotine sulfate. Caution: Cholinesterase inhibitor.

THERAP CAT: Anticholinesterase; cholinergic.

8924. 2,2,3,3-Tetrafluoro-1-propanol. C,-Fluoroalcohol. C₃H₄F₄O; mol wt 132.06. C 27.28%, H 3.05%, F 57.55%, O 12.12%. HCF₄CF₂CH₄OH. Prepn: Bestian. Rehn. Ger. pat. 1,007,771 (1957 to Hoechst). Liquid. d₂²⁰ 1.4853. mp -15°. bp₇₆₀ 109-110°. n_D²⁰ 1.3197. Surface tension at 20° = 27.6 dyn/cm.

p-Nitrobenzoate, mp 47°.

USE: To introduce fluoroalkyl groups into an organic molecule. Proposed intermediate for plastics, surface active agents, lubricants, elastomers.

8925. Tetraglycine Hydroperiodide. Globaline. 1, N₂O₁₆; mol wt 1490.95. C 12.89%, H 2.84%, I 59.58%, N 7.52%, O 17.17%. 2[(NH₂CH₂COOH)₄HI].2½I₂. Preprisons, Eddy, J. Am. Chem. Soc. 74, 1346 (1952); Morris et al., Ind. Eng. Chem. 45, 1013 (1953).

Flat needles with brassy-bronze metallic luster in reflected light, dec 162-167°. Soly in water at $25^{\circ} = 380 \text{ g/l}$.

USE: Decontamination of drinking water in emergencies Used in amounts sufficient to yield 8 ppm of active iodine. A tablet contg 20 mg plus 96 mg Na₂H₂PO₇ plus 4 mg talc will decontaminate one quart of water. Such tablets after 7

days' storage at 60° retained 60% dine Less stable than aluminum

, 8926. Tetraglyme. 2,5,8,11,1nethylene glycol dimethyl ether glycol. C₁₀H₂O₅ mol wt 222.3: 15.99%. CH₃O(CH₂CH₂O₃CH₃CH₃Oid methyl ether and 2.2°-dichloration with the control of the c U.S. pat. 2,111,234 (1935): Ind. Purification: Vogel, J. Chem. S. Liquid. di 1.0087; di 0.951 bp, 118°. no 1.4325. Sol in war. bon solvents. USE: Solvent.

8927. Tetrahydrocanuabinol. 11-3-pentyl-61f-dibenzofb,d]pyra 314.45. C 80.21%, H 9 62%, O of marihuana (hashish). The / Δ6-3,4-trans isomer both have b cally active, although the forme nant active component: Mecho: (1970). Isoln of A1-3,4-trans-for Mechoulam, J. Am. Chem. Soc. Δ^4 -3,4-trans-form: Hively et Synthesis of dl- Δ^4 -3,4-trans-form 89, 5934 (1967); Rayden et al., Experientia 31, 16 (1975); of diet al., J. Am. Chem. Soc. 83, synthesis of $(-)-\Delta^{1}-3,4$ -trans-is form: Mechoulam et al., ibid. configuration of naturally occur-Gaoni, Tetrahedron Letters 1947 and Hashish.

alternate numberia

....

 Δ^1 -THC = Δ^9 -THC Δ^6 -THC = $\Delta^{1(6)}$

(-)-Δ1-3,4-trans-Form, bp_{0,6} 0.53 in CHCl₃). uv max (ethan 3.20). IR, NMR, MS data a meier, Helv. Chim. Acta 50, 211 (-)-Δ6-3,4-trans-Form, bp., 0.11 in ethanol). uv max (ethan 3.22); shoulder at 230 nm (log c in Petrzilka, Sikemeier. ibid., 1., Caution: May produce serio

8928. Tetrahydrocortisone. pregnane-11,20-dione; 3a,17a,2 11,20-pregnanedione- 3α , 17α , 21wt 364.47. C 69.20%, H 8.8 mammalian metabolite of cor-Chem. 183, 365 (1950). Prepii a Streptomyces sp.: Barkemeyer (1960). Prepn of the triacetate. Merck & Co.). Prepn of the 21 pat. 2,752,339 (1956 to Glidde.

Dangarous Properties of Industrial Maleus

Sixth Edition

N. IRVING SAX

Assisted by:

Benjamin Feiner/Joseph J. Fitzgerald/Thomas J. Haley/Elizabeth K. Weisburger

THR: HIGHLY tox. A parathion-like cholinesterase in-

Disaster Hazard: When heated to decomp it emits very tox furnes of PO_r and SO_r .

TETRAETHYLDITHIOPYROPHOSPHORIC ACID (LIQUID MIXTURE)

CAS RN: 3689245.

NIOSH #: UX 6801000

 $mf: C_8H_{20}O_5P_2S_2; mw: 322.34$

Liquid, nearly water insol.

SYN: TETRAETHYL DITHIO PYROPHOSPHATE MIXTURE, LIQUID (DOT)

TOXICITY DATA:

DOT: Poison B, Label: Poison FEREAC 41,57018,76. THR: A poison. A HIGH, cholinesterase inhibitor. See also parathion.

Disaster Hazard: Dangerous; see parathion. When heated to decomp it emits very tox fumes of PO_x and SO_x.

TETRAETHYLENE GLYCOL

CAS RN: 112607

NIOSH #: XC 2100000

mf: C₈H₁₈O₅; mw: 194.26

Colorless to pale straw-colored liquid. bp: 327.3° , fp: -6° , flash p: 360°F (OC), d: 1.1248 @ 20°/20°, vap. press: 1 mm @ 153.9°. Misc in water.

1

SYN: 2,2'-(OXYBIS(ETHYLENEOXY))DIETHANOL

TOXICITY DATA:

CODEN:

skn-rbt 550 mg open MLD

UCDS** 3/3/69

eye-rbt 565 mg

AJOPAA 29,1363,46

orl-rat LD50:29 gm/kg

UCDS** 3/3/69

Aquatic Toxicity Rating: TLm96: over 1000 ppm WQCHM* 3,-,74. Reported in EPA TSCA Inventory,

THR: LOW orl. A skn, eye irr.

Fire Hazard: Slight, when exposed to heat or flame; can react with oxidizing materials.

Spontaneous Heating: No.

To Fight Fire: Alcohol foam, water, CO₂, dry chemical. Disaster Hazard: When heated to decomp it emits acrid smoke and fumes.

TETRAETHYLENEPENTAMINE

CAS RN: 112572 NIOSH #: KH 8585000

mf: C₈H₂₃N₅; mw: 189.36

Viscous, hygroscopic liquid. bp: 333°, flash p: 325°F (OC), d: 0.9980 @ 20°/20°, vap. press: <0.01 mm @ 20°.

SYN: 1,4,7,10,13-PENTAAZATRIDECANE

TOXICITY DATA:

CODEN:

skn-rbt 495 mg open SEV eye-rbt 5 mg MOD orl-rat LD50:3990 mg/kg ivn-mus LD50:320 mg/kg skn-rbt LD50:660 mg/kg

UCDS** 3/20/73 UCDS** 3/20/73 UCDS** 3/20/73 CSLNX* NX#03522 JIHTAB 31,60,49

TLm96:1000-100 ppm Aquatic Toxicity Rating: WQCHM* 4,-,74. Roorted in EPA TSCA Inventory, 1980.

THR: HIGH ivn; MDD of, skn. SEV skn; MOD eye

Fire Hazard: Slight, ther exposed to heat or flame. Disaster Hazard: Dangerous; when heated to decomp, emits tox fumes of NO_x; can react with oxidizing mate-

To Fight Fire: CO₂, dry chemical.

TETRAETHYL GERMANE

CAS RN: 597637

NIOSH #: LY 5290000

mf: C₈H₂₀Ge; mw: 188.87

Colorless oil, decomp by water. d: 1.198 @ 0°, mp: -90°, bp: 163°.

SYN: TETRAETHYL GERMANIUM

TOXICITY DATA:

CODEN:

orl-rat LDLo:700 mg/kg ipr-rat LDLo:590 mg/kg orl-mus LDLo: 2870 mg/kg CHDDAT 262,1302,66 CHDDAT 262,1302,66 CHDDAT 262,1302,66

Reported in EPA TSCA Inventory, 1980.

THR: MOD via oral and ipr routes. Animal exper show stimulation of blood formation. See also germanium

Disaster Hazard: When heated to decomp it emits acrid smoke and fumes.

TETRAETHYL LEAD

CAS RN: 78002

NIOSH #: TP 4550000

 $mf: C_8H_{20}Pb; mw: 323.47$

Colorless, oily liquid, pleasant characteristic odor. mp: 125°-150°, bp: 198°-202° with decomp, d: 1.659 @ 18°, vap. press: 1 mm @ 38.4°, flash p: 200°F. Including flash point for export shipment by water (FERREAC 41,15972,76)

SYNS:

CZTEROETHLEK OLOWIU (POL-ISH)

TETRAETHYLPLUMBANE

NCI-C54988

TOXICITY DATA:

orl-rat TDLo:11 mg/kg (6-16D preg)

CODEN:

FCTXAV 13.629.75 _TXAPA9 21,265,72

orl-mus TDLo-11 mg/kg (5-15D preg) scu-mus TDLo: 100 mg/kg/21D-

orl-rat TDLo: 7500 ug/kg (12-14D

FCTXAV 13,629,75 **EXPEAM 24,580,68**

I:CAR unk-man LDLo: 1470 ug/kg orl-rat LDLo: 17 mg/kg ihl-rat LC50:850 mg/m3/60M ipr-rat LDLo: 10 mg/kg ivn-rat LDLo:31 mg/kg par-rat LD50:15 mg/kg ihl-mus LCLo:650 mg/m3/7H scu-mus LDLo:86 mg/kg skn-dog LDLo:547 mg/kg orl-rbt LDLo:30 mg/kg

skn-rbt LDLo:830 mg/kg

85DCAI 2,73,70 AEHLAU 8,277,64 **BJIMAG 18,277,61** JPETAB 38,161,30 BJIMAG 18,277,61 AOHYA3 3,226,61 SAIGBL 15,3,73 **EXPEAM 24,580,68**

SAIGBL 15,3,73 **SAIGBL 15,3,73**

SAIGBL 15,3,73

scu-rbt LDLo:32 mg/kg ivn-rbt LDLo:23 mg/kg skn-gpg LDLo:995 mg/kg EQSSDX 1,1,75 JPETAB 38,161,30 SAIGBL 15,3,73

Aquatic Toxicity Rating: TLm96: under 1 ppm WQCHM* 3,-,74. Carcinogenic Determination: Animal Suspected IARC** 23,325,80. Carcinogenic Determination: Indefinite IARC** 2,150,73.

TLV: Air: 0.1 mg/m3 (skin) DTLVS* 4,392,80. Toxicology Review: JORCAI 76(3),265,74; JAMAAP 105, 578,35; FCTXAV 9,105,71; AJMEAZ 38,409,65; 85DHAX Pb,255,72. OSHA Standard: Air: TWA 75 ug(Pb)/m3 (skin) (SCP-W) FEREAC 39,23540,74. DOT: Poison B, Label: Poison FEREAC 41,57018,76. "NIOSH Manual of Analytical Methods" VOL 4 S383*. Reported in EPA TSCA Inventory, 1980.

THR: An exper CARC. A poison. HIGH unk, orl, ipr, ivn, par, scu, skn; MOD ihl, skn. See also lead compounds. This material is a powerful poison and a solvent for fatty materials. It has some solvent action on rubber as well. The fact that it is a lipoid solvent makes it an industrial hazard, because it can cause intoxication not only by inhal but also by absorption through the skin. Decomp when exposed to sunlight or allowed to evaporate; forms triethyl lead, which is also a poisonous compound, as one of its decomp products. This liquid lead compound, when handled in undiluted form or concentrated solution as when it is manufactured or in the plants where it is mixed with gasoline, may cause lead exposure intoxication by coming in contact with the skin. Therefore, any open receptacle which contains these liquids in high conc or any container, article of clothing, or any other object which is not kept clean, particularly in contact with this material, may subject personnel to serious lead exposure. A common air contaminant.

Fire Hazard: Mod, when exposed to heat, flame or oxidizers.

Disaster Hazard: Dangerous; see lead; can react vigorously with oxidizing materials.

To Fight Fire: Dry chemical, CQ2, mist, foam.

TETRAETHYLPYROPHOSPHATE

CAS RN: 107493

NIOSH #: UX 6825000

mf: C₈H₂₀O₇P₂; mw: 290.22

Water white to amber hygroscopic liquid. d: 1.20.

SYNS:

BIS-O,O-DIETHYLPHOSPHORIC
ANHYDRIDE
ENT 18,771
PYROPHOSPHATE DE TETRAETHYLE (FRENCH)
O,O,O-TETRAAETHYL-DIPHOSPHAT, BIS(O,O-DIAETHYLPHOSPHORSAEURE-ANHYDRID (GERMAN)

O,O,O,O-TETRAETHYL-DIFOSFAAT
(DUTGH)
O,O,O,O-TETRAETIL-PIROFOSFATO (ITALIAN)
TETRAETHYL PYROFOSFAAT
(BELGIAN)
TETRAETHYL PYROPHOSPHATE,
LIQUID (DOT)
TEPP

TOXICITY DATA: 3 orl-hmn LDLo:2 mg/kg orl-hmn TDLo:432 ug/kg:CNS ims-hmn LDLo:400 ug/kg par-hmn TDLo:100 ug/kg:CNS

CODEN: CMEP** -,1,56 CMEP** -,1,56 CMEP** -,1,56 orl-rat LD50:500 ug/kg skn-rat LD50:2400 ug/kg ipr-rat LD50:650 ug/kg ims-rat LD50:1800 ug/kg unk-rat LD50:1120 ug/kg orl-mus LD50:7 mg/kg ipr-mus LD50:850 ug/kg scu-mus LD50:1 mg/kg ivn-mus LD50:200 ug/kg skn-rbt LD50:1 mg/kg ocu-rbt LD50:1 mg/kg unk-rbt LD50:3560 ug/kg skn-dck LD50:64 mg/kg orl-bwd LD50:1 mg/kg orl-bwd LD50:1 mg/kg orl-bwd LD50:1 mg/kg

PHJOAV 185,361,60 TXAPA9 14,515,69 FEPRA7 6,353,47 JCINAO 37,350,58 30ZDA9 -,379,71 TXAPA9 21,153,72 AMIHBC 6,9,52 GUCHAZ 6,481,73 BJPCAL 9,299,54 12VXA5 8,1025,68 AJOPAA 53,512,62 BJPCAL 8,466,53 TXAPA9 47,451,79 TXAPA9 21,315,72

TLV: Air: 0.05 ppm (skin) DTLVS* 4.388,80. Toxicology Review: 31ZNAA 3(13),289,45; AQMOAC #73-19,1973; RREVAH 46,1,73; IRXPAT 3,219,64. OSHA Standard: Air: TWA 50 ug/m3 (skin) (SCP-U) FEREAC 39,23540,74. DOT: Poison B, Label: Poison FEREAC 41,57018,76.

THR: A hmn CNS. HIGH hmn orl, ims. HIGH orl, skin, ipr, ims, unk, scu, ocu. VERY HIGH via all routes. The action is similar to that of parathion. Briefly, the action results in an irreversible inhibition of the cholinesterase molecules and the consequent accumulation of large amounts of acetylcholine. See also parathion.

Chronic dose: Exposure to any organic phosphorus insecticide lowers the cholinesterase level and, until that enzyme has been completely regenerated, the exposed organism remains susceptible to relatively small doses of tetraethyl pyrophosphate. In other words, small doses at frequent intervals are largely additive. See parathion for further details.

Signs and symptoms of poisoning: Findings are similar to those for parathion.

Treatment of poisoning: Same as for parathion.

Disaster Hazard: When heated to decomp it emits tox fumes of PO_{τ} . See parathion.

TETRAETHYLPYROPHOSPHATE and COMPRESSED GAS MIXTURES

NIOSH #: UX 7000000

SYN: tetraethyl pyrophosphate and compressed gas mixture (dot)

TOXICITY DATA: 3

DOT: Poison A, Label: Poison Gas FEREAC 41, 57018,76.

THR: Poison gas. See also tetraethyl pyrophosphate.

Disaster Hazard: When heated to decomp it emits tox fumes of PO_r.

TETRAETHYLSTANNANE

CAS RN: 597648

NIOSH #: WH 8625000

mf: C₈H₂₀Sn; mw: 234.97

Colorless liquid. d: 1.187 @ 23°, mp:—112°, bp: 181°. Insol in water; sol in organic solvents.

SYN: TETRAETHYL TIN

Inspector:

Bruce Venner

Date: 9/9/82

Location:

Ferdinand Scaccetti

N.J.D.O.T. Maintenance yard - Flemington

St: Rt. 31

Property owner:

State of New Jersey

N.J.D.O.T.

Raritan Twp.

1035 Parkway Ave.

Trenton, N.J.

County: Hunderton County

Lot:

Block:

29

Origin of Complaint:

Complaint:

possible hazardous waste site.

Findings: At 1035 hrs. Bruce Venner and Ferdinand Scaccetti arrived at the N.J.D.O.T. Maintenance Yard in Flemington. Upon identifing ourselves to Mr. Earl Coleman (yard foreman) we were informed that no information could be given to N.J.D.E.P. personnel by Region I maintenance employees. Citing a memo dated 1/19/82 from Mr. Worth A. Cunningham, Regional Maintenance Engineer, Mr. Coleman informed us that permission to inspect and/or investigate the facility had to be granted through Mr. Cunningham's office. Mr. Cunningham was contacted by phone and permission was granted to conduct this investigation.

According to Mr. Coleman the Flemington maintenance yard property was formerly owned by Esso (Exxon Corp.). The property was purchased by the State (N.J.D.O.T.) in 1960. At this time we spoke to Mr. Edward Kerr, maintenance operator and an employee of the N.J.D.O.T. since 1957. Mr. Kerr stated that during the conversion of the Exxon property to the current D.O.T. facility, maintenance employees encountered leaded gasoline contaminated earth and shale. Fearing lead related health problems all clothing, tools, gloves, boots and equipment were buried at a site on the west border of the property (see map). This burial site is designated as a "LEAD DUMP" on N.J.D.O.T. site plans for this property. Mr. Coleman felt that this investigation was probably initiated by someone noting the "LEAD DUMP" on the site plans.

As of this writing, no evidence of N.J.D.E.P.-DWM violations were noted during an evaluation of the facility's daily operations.

1130 hrs. - We left the site.

ekd/

c: George King

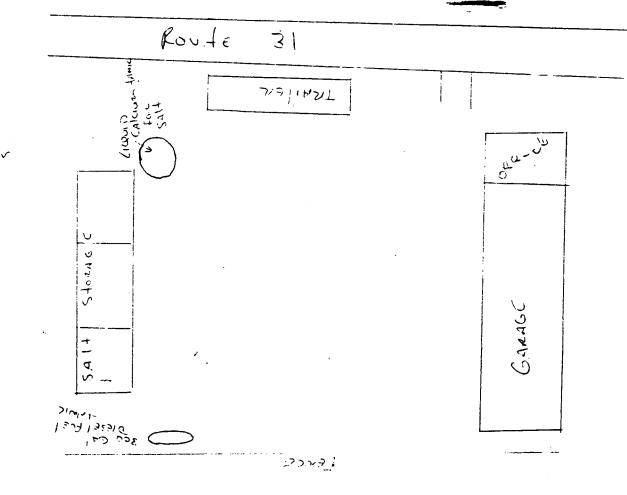
MEMO							
то	File #82-08-19-011						
FROM	Ferdinand Scaccetti/Bruce Venner	DATE	9/9/82				
SUBJECT	Recommendations		•				

Since this investigation was probably initiated due to the expansion of US Rt. 31, it is our recommendation that any further investigative work be conducted by the Dept. of Transportation.

An investigation of this facility was conducted by Wayne Howitz, DWM and Bill Althoff, DWR, on 4/18/80. As a result of this investigation, potable water wells in the area were sampled and analyzed for lead content. Lead levels in these wells were found to be normal.

cc: F. Howard Zahn, Chief, Bureau of Envl. Analysis
NJ Dept. of Transportation
1035 Parkway Ave.
Trenton, NJ 08625
Attn: J. Lee Hendricks

82-08-19-011 Feath Science TT. N 300T main yard Flemine 9/5/82 3 Acres



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C. CITY. FLEMINGTON				D. STATE	E. ZIP CODE		NTY NAME
G. OWNER/OPERATOR (i known)			/Val	<u> </u>	HUN	TERDON
I, NAME		-				2. TEL	EPHONE NUMBER
H. TYPE OF OWNERSHIP 1. FEDERAL	(ii known) 2. STATE	3. COUNTY	4. MUN	CIPAL []	. PRIVATE	6. UNKN	DWN
I. SITE DESCRIPTION	·						
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J. HOW IDENTIFIED (i.e.,	citizen's comp	laints, OSHA cita	itions, etc.)			1	K. DATE IDENTIFIED
STATE LIST		· · · · · · · · · · · · · · · · · · ·	. !				(mu,, duy, de yr.) 5/8/8/
L. SUMMARY OF POTENT	TAL OR KNOW	N PROBLEM					
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